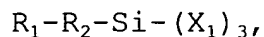


**IN THE CLAIMS:**

1. (original) A chemical compound of the general formula



wherein

$X_1$  is a leaving group,

$R_2$  is a cycloalkyl having from 3 to 16 carbon atoms, an aryl having from 5 to 18 carbon atoms or a polycyclic alkyl group having from 7 to 16 carbon atoms,

and

$R_1$  is a substituent of  $R_2$  selected from alkyl groups having from 1 to 4 carbon atoms, alkenyl groups having from 2 to 5 carbon atoms, alkynyl groups having from 2 to 5 carbon atoms, and aromatic groups having 5 or 6 carbon atoms, each of said groups being optionally substituted, and Cl and F.

2 - 9. (canceled)

10. (original) A poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain cross-linking groups and  $-R_1-R_2$  bound to from 5 % to 50 % of the silicon atoms in the Si-O

backbone, wherein  $R_2$  is an aromatic group having 6 carbon atoms and  $R_1$  is a substituent at position 4 of  $R_2$ .

11 - 28. (canceled)

29. (currently amended) A poly(organo siloxane) compound comprising a repeating Si-O backbone, -R1-R2 bound to from 25% to 50% of the silicon atoms in the Si-O backbone, wherein  $R_2$  is an aromatic group having 6 carbon atoms and  $R_1$  is a substituent at position 4 of  $R_2$  ~~(again this could be drawn out for clarity)~~, and  $R_3$  bound to from 5% to 50% of the silicon atoms, wherein  $R_3$  is an alkenyl group having from 2 to 5 carbon atoms, acrylic group or epoxy group.

30 - 40. (canceled)

41. (original) An integrated circuit having a layer with areas of an electrically conductive first material and an electrically insulating second material, wherein the second material is a poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain crosslinking groups and -R1-R2 bound to from 5% to 50% of the silicon atoms in the Si-O backbone, wherein  $R_2$  is

an aromatic group having 6 carbon atoms and R1 is a substituent at position 4 of R2.

42 - 56. (canceled)

57. (original) A method of making a chemical compound of the formula  $R_1-R_2-Si-(X_2)_3$ , wherein  $X_2$  is a halogen,  $R_2$  is an aromatic group having 5 to 18 carbon atoms, a cycloalkyl having from 3 to 16 carbon atoms, or a polycyclic alkyl group having from 7 to 16 carbon atoms, and  $R_1$  is a substituent, in particular at position 4 of  $R_2$ ,  $R_1$  being selected from the group consisting of alkyl groups having from 1 to 4 carbon atoms, alkenyl groups having from 2 to 5 carbon atoms, and OH groups, comprising:

- reacting a compound of the formula  $R_1-R_2-Br$ , wherein  $R_1$  and  $R_2$  have the same meaning as above, with Mg and with a compound of the formula  $Si-(OR_3)_4$ , wherein  $R_3$  is an alkoxy group having from 1 to 3 carbon atoms, to form a compound of the formula  $R_1-R_2-Si-(OR_3)_3$ , wherein  $R_1$ ,  $R_2$  and  $R_3$  have the same meaning as above;
- reacting the thus obtained compound of the formula  $R_1-R_2-Si-(OR_3)_3$  with a halogenating agent capable of replacing, preferably each,  $R_3$  with a halogen substantially without

affecting the rest of the compound of formula  $R_1-R_2-Si-(OR_3)_3$  to produce a compound of the formula  $R_1-R_2-SiX_2$ , wherein  $R_1$ ,  $R_2$  and  $X_2$  have the same meaning as above, and  
- recovering the thus obtained compound.

58. (canceled)

59. (original) A chemical compound of the formula  $R1-R2-Si-(X1)_3$ , wherein  $X1$  is a halogen, acyloxy, alkoxy or OH group,  $R2$  is an organic polycyclic or bridged ring structure with Si bound to carbon position 1, and  $R1$  is a substituent at position 3 or higher of  $R2$  selected from an alkyl group having from 1 or more carbons atoms, an alkenyl, an alkynyl, an acrylate, an aryl, an alcohol, OH, H, D, Cl or F.

60 - 67. (canceled)

68. (original) A poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain crosslinking groups and  $-R1-R2$  bound to from 5% to 50% of the silicon atoms in the Si-O backbone, wherein  $R2$  is polycyclic or bridged ring structure and  $R1$  is a substituent at position 4 of  $R2$  selected from an alkyl chain

having from 1 to 4 carbons, H, D, F or OH.

69 - 84. (canceled)

85. (original) A poly(organo siloxane) compound comprising a repeating Si-O backbone, -R1-R2 bound to from 25% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is a polycyclic or bridged ring structure and R1 is a substituent at position 4 of R2 selected from H, D, F, OH, an alkyl group having from 1 to 4 carbon atoms, and an alkenyl group having from 2 to 5 carbon atoms, and further comprising R3 bound to from 5% to 50% of the silicon atoms, wherein R3 is an alkenyl group having from 2 to 5 carbon atoms, acrylic group, aryl group or epoxy group.

86 - 98. (canceled)

99. (original) An integrated circuit having a layer with areas of an electrically conductive first material and an electrically insulating second material, wherein the second material is a poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain crosslinking groups and -R1-R2 bound to from 5% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is

a polycyclic or bridged ring structure and R1 is a substituent at position 4 of R2 selected from H, D, F, OH, an alkyl group having from 1 to 4 carbon atoms, and an alkenyl group having from 2 to 5 carbon atoms.

100 - 107. (canceled)

108. (original) A chemical compound of the formula R1-R2-Si-(X1)3, wherein X1 is a halogen, acyloxy, alkoxy or OH group, R2 is an aromatic group having 8 carbon atoms and R1 is a substituent at position 5 of R2 selected from an alkyl group having from 1 to 4 carbon atoms, an alkenyl group having from 2 to 5 carbon atoms, an alkynyl group having from 2 to 5 carbon atoms, Cl or F.

109 - 112. (canceled)

113. (original) A poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain crosslinking groups and -R1-R2 bound to from 5% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is an aromatic group having 8 carbon atoms and R1 is a substituent at position 5 of R2.

114 - 121. (canceled)

122. (original) A poly(organo siloxane) compound comprising a repeating Si-O backbone, -R1-R2 bound to from 25% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is an aromatic group having 8 carbon atoms and R1 is a substituent at position 5 of R2 (again this could be drawn out for clarity), and R3 bound to from 5% to 50% of the silicon atoms, wherein R3 is an alkenyl group having from 2 to 5 carbon atoms, acrylic group or epoxy group.

123 - 126. (canceled)

127. (original) An integrated circuit having a layer with areas of an electrically conductive first material and an electrically insulating second material, wherein the second material is a poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain crosslinking groups and -R1-R2 bound to from 5% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is an aromatic group having 8 carbon atoms and R1 is a substituent at position 5 of R2.

128 - 133. (canceled)

134. (original) A chemical compound of the formula  $R_1-R_2-Si-(X_1)_3$ , wherein  $X_1$  is a halogen, acyloxy, alkoxy or OH group,  $R_2$  is an aromatic group having 10 carbon atoms and  $R_1$  is a substituent at position 6 of  $R_2$  selected from an alkyl group having from 1 to 4 carbon atoms, an alkenyl group having from 2 to 5 carbon atoms, an alkynyl group having from 2 to 5 carbon atoms, Cl or F.

135 - 138. (canceled)

139. (original) A poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain crosslinking groups and  $-R_1-R_2$  bound to from 5% to 50% of the silicon atoms in the Si-O backbone, wherein  $R_2$  is an aromatic group having 10 carbon atoms and  $R_1$  is a substituent at position 6 of  $R_2$ .

140 - 147. (canceled)

148. (original) A poly(organo siloxane) compound comprising a repeating Si-O backbone,  $-R_1-R_2$  bound to from 25% to 50% of the silicon atoms in the Si-O backbone, wherein  $R_2$  is an aromatic group having 10 carbon atoms and  $R_1$  is a substituent at position 6 of  $R_2$ , and  $R_3$  bound to from 5% to 50% of the silicon atoms, wherein  $R_3$  is



an alkenyl group having from 2 to 5 carbon atoms, acrylic group or epoxy group.

149 - 152. (canceled)

153. (original) An integrated circuit having a layer with areas of an electrically conductive first material and an electrically insulating second material, wherein the second material is a poly(organo siloxane) compound comprising a repeating Si-O backbone, carbon chain crosslinking groups and -R1-R2 bound to from 5% to 50% of the silicon atoms in the Si-O backbone, wherein R2 is an aromatic group having 10 carbon atoms and R1 is a substituent at position 6 of R2.

154 - 159. (canceled)

160. (original) A method for making a chemical compound of the formula R1-R2-Si-(X1)3, wherein X1 is a halogen or alkoxy group, R2 is an aromatic group having 10 carbon atoms and R1 is a substituent at position 6 of R2, R1 being selected from an alkyl group having from 1 to 4 carbon atoms, an alkenyl group having from 2 to 5 carbon atoms, or OH, comprising:

reacting R1-R2-Br with Mg and Si-(OR3)4 to form R1-R2-Si-(OR3)3 + BrMgOR, where R1 is selected from an alkyl group having from 1 to 4 carbon atoms, an alkenyl having from 2 to 5 carbon atoms, R2 is an aromatic or non-aromatic ring structure having from 5 to 7 carbon atoms, and R3 is an alkoxy group having from 1 to 3 carbon atoms;

reacting R1-R2-Si-(OR3)3 with 3 SO2Cl2 in the presence of C5H5N-HCl to yield R1-R2-SiCl3 + 3 SO2 + 3EtCl.

161 - 163. (canceled)

164. (original) A thin film comprising a composition obtained by hydrolyzing

- a monomeric silicon compound having at least one hydrocarbyl radical, containing an unsaturated carbon-to-carbon bond, and at least one hydrolyzable group attached to the silicon atom of the compound with
  - another monomeric silicon compound having at least one aryl group and at least one hydrolyzable group attached to the silicon atom of the compound
- to form a siloxane material.

U.S. National Stage of  
PCT/FI2004/000224  
PRELIMINARY AMENDMENT

**PATENT**

165 - 166. (canceled)